

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Lockheed Martin Corporation Communications and Power Center</p> <p>2. 100 Campus Drive Newtown, Pennsylvania 18940</p>	<p>In accordance with letter dated March 13, 1998,</p> <p>3. License number 37-02006-09 is amended in its entirety to read as follows:</p> <p>4. Expiration date <u>May 31, 2003</u></p> <p>5. Docket No. <u>030-12894</u> Reference No. <u>50011</u></p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cobalt 60</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources (AECL Model C-166, C-167, or C-198)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>(b)(2)High :uries per source and (b)(2)High :uries total</p>
<p>9. Authorized use:</p> <p>A. For use in AECL Model Gammacell 220 irradiator for irradiation of materials except explosives and flammable materials.</p>		

CONDITIONS

- 10. Licensed material shall be used only at 230 Mall Boulevard, King of Prussia, Pennsylvania.
- 11. A. Licensed material shall be used by individuals designated by the Radiation Safety Committee, Joseph J. Matula, DO, Chairman.
- B. The Radiation Safety Officer for this license is Jeff N. Evans.
- 12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
- 13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed 3 years.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
37-02006-09Docket or Reference Number
030-12894

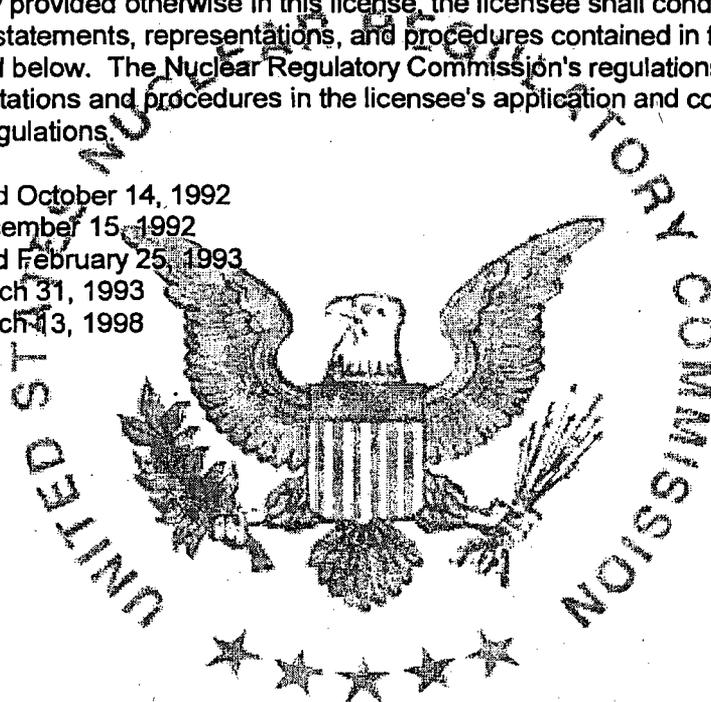
Amendment No. 12

- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen 3; or
 - (ii) they contain only a gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

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14. The licensee shall not perform repairs or alterations of the irradiator involving removal of shielding or access to the licensed material. Removal, replacement, and disposal of sealed sources in the irradiator shall be performed by a person specifically licensed by the Commission or an Agreement State to perform such services.
15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated October 14, 1992
 - B. Letter dated December 15, 1992
 - C. Application dated February 25, 1993
 - D. Letter dated March 31, 1993
 - E. Letter dated March 13, 1998



For the U.S. Nuclear Regulatory Commission

Date May 21, 1998

By

*Original signed by John R. McGrath*John R. McGrath
Nuclear Materials Safety Branch 3
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

May 21, 1998

Docket No. 030-12894
Control No. 125533

License No. 37-02006-09

John Zimmerman
Director of Operations
Lockheed Martin Corporation
Valley Forge Missiles & Space
P.O. Box 8555
Philadelphia, PA 19101

Dear Mr. Zimmerman:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original signed by John R. McGrath

John R. McGrath
Senior Health Physicist
Nuclear Materials Safety Branch 3
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 12

cc:
Jeff N. Evans, Radiation Safety Officer

ML10

DOCUMENT NAME: G:\DNMS\DOCWORK\LICLTRL3702006.09

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To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	JMcGrath <i>JRM</i>						
DATE	05/21/98		05/ /98		05/ /98		05/ /98

OFFICIAL RECORD COPY

NOTE: THIS FORM MUST BE COMPLETED FOR ALL AMENDMENT/RENEWAL ACTIONS

CHECKLIST FOR DETERMINING WHEN A SIGNIFICANT LICENSING ACTION MAY
REQUIRE AN ADDITIONAL ONSITE INSPECTION

If licensing action has resulted in one of the following, regional management must determine the need for performing an onsite inspection prior to the next scheduled inspection:

1. Does the licensing action result in increased authorization for types and quantities of radioactive material that could result in a significant potential for increased radiation exposure to the public and occupational workers?

No

Yes (Describe)

NOTE: This can be identified by a change to a higher priority, i.e., from a Priority 2 to a Priority 1 license. Another significant change in this area would be an increase in the authorized quantity from a millicurie amount to a curie amount.

2. Does the licensing action authorize a physical move of a facility or authorize use at a temporary job site(s)?

No

Yes (Describe)

3. Does the licensing action authorize satellite facilities where material will be used or stored?

No

Yes (Describe)

4. Does the licensing action increase the types of uses or disposal (incineration) of radioactive materials?

No

Yes (Describe)

5. Does the licensing action significantly increase the number of authorized users?

No

Yes (Describe)

125533



MISSILES & SPACE: Valley Forge Operation
P.O. Box 8555, Philadelphia, PA 19101

March 24, 1998

Ms. Elizabeth Ullrich
Nuclear Materials Safety Branch
US Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Subject: Amendment Application
re: License No. 37-02006-09
Docket No. 030-12894
Control No. 117305

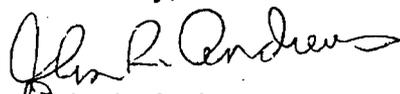
Dear Ms. Ullrich:

The Amendment Application submitted by Lockheed Martin Corporation on March 13, 1998 made mention of two individuals taking RSO training. That activity has been completed and copies of Certificates are attached for Messrs Evans and Williams.

Also attached is the management delegation letter for 1998; this replaces the 1997 letter submitted with the Application.

If you have any questions regarding this Application, feel free to call the undersigned at 610-354-3840, or Mr. Evans at 215-497-1312.

Sincerely,


John L. Andrews,
Radiation Safety Officer

cc: J. Zimmerman, J. N. Evans (CPC), E. M. Wisser, C. V. Tamman (CPC)

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MAR 27 1998

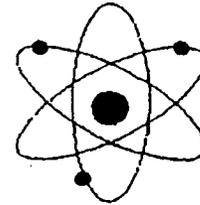
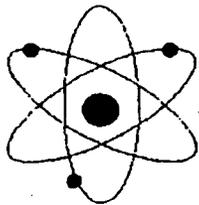
Radiation Safety & Control Services, Inc.

Awards this certificate to

Jeff Evans

in recognition of satisfactory completion of

**RADIATION SAFETY OFFICER
TRAINING COURSE**



Orlando, Florida

March 16 - 20, 1998


Frederick P. Straccia, CHP


James P. Tarzia, CHP

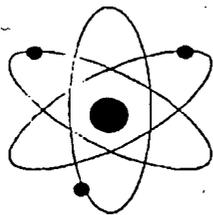
Radiation Safety & Control Services, Inc.

Awards this certificate to

Todd Williams

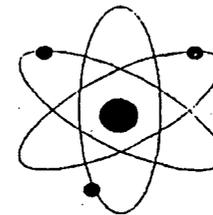
in recognition of satisfactory completion of

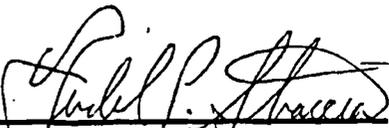
**RADIATION SAFETY OFFICER
TRAINING COURSE**



Orlando, Florida

March 16 - 20, 1998




Frederick P. Straccia, CHP


James P. Tarzia, CHP

Lockheed Martin Missiles & Space
Valley Forge Operations
Post Office Box 8555 Philadelphia, PA 19101
Telephone 610.354.1776 Facsimile 610.354.6090

LOCKHEED MARTIN 

Salvatore C. Capodici
Vice President

February 25, 1998

To Whom It May Concern:

John Zimmerman, Director of Operations, Valley Forge Missiles & Space, is hereby authorized to sign on behalf of Lockheed Martin Missiles & Space for all Environment Health and Safety issues affecting the Lockheed Martin facility in King of Prussia, Pennsylvania: 230 E. Mall Boulevard. In the absence of written direction to the contrary, this authorization shall remain in effect through December 31, 1998.


Salvatore C. Capodici
Vice President
Delaware Valley Operations

OFFICIAL RECORD COPY ML 10

This is to acknowledge the receipt of your letter/application dated

3/13/98, and to inform you that the initial processing which includes an administrative review has been performed.

37-02006-09

There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 125533
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R1)
18-986

Sincerely,
Licensing Assistance Team Leader

LOCKHEED MARTIN



MISSILES & SPACE: Valley Forge Operation
P.O. Box 8555, Philadelphia, PA 19101

March 13, 1998

Ms. Elizabeth Ullrich
Nuclear Materials Safety Branch
US Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

030-12894

Subject: Amendment Application
re: License No. 37-02006-09
Docket No. 030-12894
Control No. 117305

Dear Ms. Ullrich:

Lockheed Martin Corporation hereby submits an Amendment Application on Form 313, with Attachments, for the purpose of changing the Management Site, the Radiological Safety Officer and several other matters. These changes are connected with facility consolidation in the Delaware Valley. The Communications and Power Center (CPC) now manages the Radiation Effects Laboratory where the radioactive material is located. The radioactive material will continue to be located at this Lockheed Martin Valley Forge facility in King of Prussia.

Mr. Evans, the new RSO, is a member of the Environmental, Safety and Health Department of the recently-formed CPC located in Newtown, PA. The Deputy RSO, located at the Valley Forge facility, will support the RSO in conduction of regulated activity.

A check for the Application Fee (\$390) is being processed for mailing to the usual NRC address in St. Louis, MO.

If you have any questions regarding this Application, feel free to call the undersigned at 610-354-3840, or Mr. Evans at 215-497-1312.

Sincerely,

John L. Andrews,

Radiation Safety Officer

cc: J. Zimmerman, J. N. Evans (CPC), E. M. Wisser, C. V. Tamman (CPC)

125533

OFFICIAL RECORD COPY

ML 10 REC'D IN LAT

MAR 16 1998

Estimated burden per response to comply with this information collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Forward comments regarding burden estimate to the Information and Records Management Branch (T-8 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0120), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19408-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
811 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8084

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

<p>1. THIS IS AN APPLICATION FOR (Check appropriate item)</p> <p><input type="checkbox"/> A. NEW LICENSE</p> <p><input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>37-02006-09</u></p> <p><input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____</p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (include Zip code)</p> <p>(John L. Andrews, RSO) * Lockheed Martin Missiles & Space P.O. Box 8555 Philadelphia, PA 19101</p>
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<p>3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>Lockheed Martin Corporation * See attachment if 230 Mall Blvd. Application is approved, King of Prussia, PA 19406 for detail concerning new RSO.</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Same *</p> <p>TELEPHONE NUMBER (610) 354-3840</p>
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SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

<p>5. RADIOACTIVE MATERIAL</p> <p>a. Element and mass number, b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>
<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</p>	<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>
<p>9. FACILITIES AND EQUIPMENT.</p>	<p>10. RADIATION SAFETY PROGRAM Fee mailed to NRC @ St. Louis, MO</p>
<p>11. WASTE MANAGEMENT.</p>	<p>12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)</p> <p>FEE CATEGORY 3E AMOUNT ENCLOSED \$ 390</p>

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

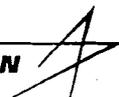
WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

<p>CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE</p> <p>John Zimmerman, Director of Operations</p>	<p>SIGNATURE</p> <p><i>John Zimmerman</i></p>	<p>DATE</p> <p>3/13/98</p>
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FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		125533
APPROVED BY				DATE	
					REC'D IN LAT MAR 16 1998

Lockheed Martin Missiles & Space
Valley Forge Operations
Post Office Box 8555 Philadelphia, Pa. 19111
Telephone 610-354-1776 Facsimile 610-354-6090

LOCKHEED MARTIN



Salvatore C. Capodici
Vice President

24 January 1997



To Whom It May Concern:

John Zimmerman, Director of Operations, Valley Forge Missiles & Space, is hereby authorized to sign on behalf of Lockheed Martin Missiles & Space for all Environment Health and Safety issues affecting the following Lockheed Martin facilities in King of Prussia, Pennsylvania: 230 E. Mall Boulevard, and Building B, Vandenberg Avenue. In the absence of written direction to the contrary, this authorization shall remain in effect through December 31, 1997.


Salvatore C. Capodici, Vice President
Valley Forge Operations

* 1998 Letters to be mailed

Lockheed Martin Corp.
37-02006-09
Amendment Application
March 13, 1998

LOCKHEED MARTIN 

ATTACHMENT NO. 1

**PRINCIPAL DETAIL
FOR
LICENSE AMENDMENT APPLICATION
CHANGES**

NRC LICENSE 37-02006-09

Lockheed Martin Corporation
Valley Forge Operation
P.O. Box 8555
Philadelphia, PA 19101

Item 2 Name and Mailing Address of the Applicant

At the time of approval of this Amendment Application, the revised holder of this License is to be:

Mr. Jeff N. Evans, RSO
Communications and Power Center
100 Campus Drive
Newtown, PA 18940

Mr. Evans telephone number is: (215) 497-1312.

Item 3 Use Location

No change.

ITEM 7 RADIATION SAFETY PROGRAM PERSONNEL

The Ionizing Radiation Advisory Group (IRAG) is to be renamed as the Radiation Safety Committee (RSC). Its duties will be to review, approve and provide oversight of all ionizing radiation activities at the Communications and Power Center (CPC), in accord with Lockheed Martin mandatory safety procedures.

The initial RSC membership will be as follows:

<u>Status</u>	<u>Name</u>	<u>Title</u>
Chairman	Joseph J. Matula, DO, FAAFP	CPC Plant Physician
Secretary	Jeff N. Evans	Radiation Safety Officer
Member	Todd J. Williams	Deputy Radiation Safety Officer
Member	Clare V. Tamman	Acting Mg'r., ESH
Member	Roman Herschitz, Ph.D.	Mg'r. Spec. Eng'g.
Member	Mark W. MacGregor	Payload Power Specialist
Member	John S. Daukas	Senior Staff Engineer

Resumes detailing training and experience with radioactive materials for each of the above individuals are presented in Attachment No. 2.

The RSO'S office is located at the CPC, in Newtown, PA. The Deputy RSO is located at the Missiles & Space Valley Forge Operation in King of Prussia, PA. Each is a member of their local environment, health and safety department. The CPC and the VFO are part of the Corporation's Sunnyvale, CA spacecraft systems organization. The Deputy RSO will report to and perform duties as directed by the RSO, in a part-time capacity, while supporting other ESH duties.

Mr. Andrews, the present RSO, is providing transition direction and assistance through a period extending until July 1998.

Item 10 Radiation Safety Program

10.1 Personnel Monitoring Equipment

The only change to be noted is that the primary company records will be maintained and held by the RSO at the CPC facility .

10.2 Radiation Detection Instruments

Radiation detection instrumentation is available on site to perform such survey's that are necessary to evaluate the extent of radiation hazards that may be present and to comply with NRC regulations. Table 1 lists the instruments that are available to determine normal radiation levels in the room housing the irradiators, perform semiannual leak testing and radiation levels in adjacent unrestricted areas.

These instruments are calibrated to within $\pm 20\%$ of actual values over the range of the instrument on an annual basis and after servicing. Calibration records will be maintained for a minimum of two (2) years after each calibration.

All calibration is currently performed by RMC Calibration Services, Inc., EIN #23-2401158, located at 2107 North Harrison Avenue, Wilmington, DE 19809-1426. The RMC telephone number is (303) 798-6850.

Table 1
Radiation Instrumentation

<u>Type</u>	<u>Number Available</u>	<u>Radiation Detected</u>	<u>Ranges</u>	<u>Window Thickness</u>	<u>Use</u>
Nuclear Measurements Corp. PC-55	1	Alpha Beta Gamma	0/99,000K counts	Windowless Gas Flow Counter	Measuring Swipes
Eberline Smart Radiation Monitor Model SRM-100	2	Gamma	0.005 to 50 R/hr		Remote Readout of Room Dose Rate
Eberline Geiger Counter Model E 520	3	Beta Gamma	0.01 to 2000 mR/hr		Surveying

Lockheed Martin Corp.
37-02006-09
Amendment Application
March 13, 1998



ATTACHMENT NO. 2

**Resumes
of the
RADIATION SAFETY COMMITTEE**

Lockheed Martin Corporation
Valley Forge Operation
PO Box 8555
Philadelphia, PA 19101

Resume

Joseph J. Matula, DO, FAAFP
Plant Physician
AstroSpace East Windsor, NJ & CPC Newtown, PA

A. Education

Loyola Univ. of Chicago
BS in Biology

Chicago Coll. of Osteopathic Med.
Doctor of Osteopathy (DO)
Internship Certification

Rush Med. Coll., Chicago, IL
Residency Training Certificate

B. Experience

- Lockheed Martin Corp., East Windsor, NJ (October 1995 to present & CPC Newtown, PA (July 1996 to present)
Plant Physician

Active part-time practice of Occupational and Industrial Medicine. Performs physical examinations. Implements and maintains procedures for examining, treating and treatment referrals of employees injured at work. Implemented comprehensive Workers' Compensation Management Program which resulted in 4.3 million man hours without a lost work day due to injury.

- Emergency Physician Assoc., P.A., Woodbury, NJ
Ass't. Div. Director, Kennedy Mem. Hospital/Univ. Med. Center-Stratford Div. (1990-1991), R. Wood Johnson Univ. Hospital, Hamilton, NJ (1991 to present)

Active clinical practice of emergency medicine. Assured adequate staffing and scheduling of Emergency Physicians. Supervised and taught medical students and interns. Developed quality assurance procedures for patient chart reviews and Physician peer reviews. Resolved patient care and satisfaction issues. Performed sexual assault examinations and served as expert witness in criminal cases.

- East Coast Emergency Physicians, P.A., Stratford, NJ
Ass't. Div. Director (1989-1990)

Active clinical practice of emergency medicine. Assured adequate staffing and scheduling of Emergency Physicians. Supervised and taught medical students and interns.

- USAF Clinic, McGuire AFB, NJ
Chief and Major, Clinic Services (1985-1989)

Resume for Joseph J. Matula, DO concluded

Full time clinical practice to active and retired USAF community. Officer in charge of Radiology and Pharmacy. Rewrote five medical policy and procedure manuals. Performed examination, counseling and referrals for HIV-positive patients.

C. Specific Isotope/X-Ray Experience

Completed military medical radiation exposure training and radiation disaster training.

D. Associations

Fellow, American Academy of Family Physicians
American Medical Association
American College of Emergency Physicians
New Jersey Academy of Emergency Physicians
American Academy of Physician Specialists
American College of Occupational and Environmental Medicine

E. Licensure and Certifications

Medical Licenses in New Jersey and Pennsylvania
Basic Life Support, AHA
Advanced Cardiac Life Support Provider, AHA
Advanced Pediatric Life support Provider, AHA-AAP
Advanced Trauma Life Support Provider, ACS
Physician's Recognition Award for Continuing Medical Education, AMA
Meritorious Service Medal, USAF

Resume

Jeff N. Evans
Staff Safety and Health Engineer, RSO
Environmental, Safety & Health Component
Communications and Power Center, Newtown, PA

A. Education

BS - Occupational Safety and Industrial Hygiene Management; Millersville University, Millersville, PA

MS - Environmental Health Science; Temple University, Philadelphia, PA
Health Physics; Spring Semester, 1995 (2 credits).

Instruction on operation of radiation survey instruments, theory of ionizing and non-ionizing radiation, in depth review of the NRC regulations, radiation safety program development for effective protection of radiation workers.

Radiation Safety - American University, Washington, DC
Physics Department - Dr. Romeo Segnan.

Instruction covered review of scintillation counting for P-32; S-35, performing a contamination survey for beta emitters, sealed source leak surveys, radiation survey instrumentation, theory of ionizing radiation and NRC regulations.

Radiation Safety and Control Services, Inc. Stratham, NH
RSO Training (Scheduled for March 1998, Certificate copy to be provided)

B. Experience

- Lockheed Martin Missiles and Space, Communications and Power Center. Newtown, PA (Started July 1997)
Staff Safety and Health Engineer

Coordination of safety and Health activities; Deputy RSO for MgTh Source materials used in assembly and test activity.

- Lockheed Martin Missiles and Space, East Windsor, NJ
Staff Safety and Health Engineer

Coordination of X-ray safety and permit program, TLD personnel badge program. Coordination of annual IRAG meeting for review of Radiation Safety Written Program. Prime activity was in industrial hygiene and safety engineering. 1.5 years experience.

Resume for Jeff N. Evans, concluded

B. Experience

- American University, Washington, DC
Associate Radiation Safety Officer.

Performed contamination surveys in University laboratories for phosphorous-32 and sulfur-35 (sequencing gels) and performed leak checks on sealed sources: Cobalt-57, Cobalt-60. Coordinated Radiation Waste Disposal Program for P-32 and S-35. Coordinated Radiation Safety Committee meetings on a quarterly basis. 4 years experience.

C. Certifications

American Society of Safety Engineers, Certified Safety Professional (CSP)

D. Associations

American Society of Safety Engineers

American Industrial Hygiene Association

Resume

Todd J. Williams
Industrial Hygienist , Deputy RSO
Environmental Health & Safety Component
Valley Forge Operation, King of Prussia, PA

A. Education

Temple University, College of Engineering, Philadelphia, Pennsylvania.
MS in Environmental Health in progress, with a concentration in Industrial Hygiene,
including radiological health (Expected August 1998).

BS Occupational Safety and Hygiene Management
Millersville University, Millersville, Pennsylvania.

Radiation Safety and Control Services, Inc. Stratham, NH
RSO Training (Scheduled for March 1998, Certificate copy to be provided)

B. Experience

- Lockheed Martin Corp., Valley Forge Operation, King of Prussia, PA.
Industrial Hygienist (July 1996-Present)

Implements and develops safety/industrial hygiene training: confined space, lockout/tagout, hazcom, respiratory, hearing conservation, non-ionizing radiation, asbestos, and others. Review engineering standard operating procedures for test and manufacturing. Develops and documents industrial hygiene monitoring, ventilation surveys, ergonomic assessments, and process hazard reviews. Provides counsel to management and staff on industrial hygiene/safety related issues. Member of emergency and hazardous material response teams. Participates in construction, renovation, and demolition team meetings to ensure safety compliances.

- Galson Consulting, Plymouth Meeting, PA.
Industrial Hygienist (August 1993-July 1996).

Provided industrial hygiene monitoring for a variety of clients. Assignment included a sixteen month contract working with the safety/industrial hygiene staff at a Mobil R&D facility and a three month assignment working with safety and health staff members at a Mobil refinery. This last assignment included radioactive contamination swipe tests and use of a Geiger counter.

Also there was an eight month assignment at Lockheed Martin Corp., King of Prussia performing as an EH&S staff member and a separate activity for the conduction of industrial hygiene samplings at six General Electric Aircraft Engine facilities.

Resume for Todd J. Williams, concluded

- Lancaster Malleable Castings Company, Lancaster, PA. (Internship)
Safety & Hygiene Specialist

This internship included activity in ergonomic assessment, industrial hygiene sampling, design of an industrial vehicle safety program and safety training.

C. Specific Isotope/X-Ray Experience

Assisted RSO in collecting and counting of swipes, surveys of MgTh product dose rates and collection of radioactive waste for turnover to a processor.

D. Associations

- The American Industrial Hygiene Association (AIHA)
- The American Society of Safety Engineers
- Temple University AIHA Student Chapter Secretary

Resume

Clare V. Tamman
Acting Manager, Environmental, Safety & Health Department
Communications & Power Center (CPC), Newtown, PA

A. Education

Environmental Studies, BS, Rutgers University
OSHA training, 40 hours
DOT HM-181/126F Training
Life Safety training, NFPA

B. Experience

- Environmental, Safety & Health Department, CPC, Newtown, PA (Jan. 1997 to present)
Acting Manager

Responsibilities include all aspects of environmental, safety and health control, compliance and performance for a 1300 person new manufacturing facility; includes compliance with hazardous waste and water discharge regulation.

- LMMS ESH Department, East Windsor/CPC (1995-1997)
Staff Environmental Engineer

Emphasis on hazardous and water waste management issues and related procedures development and training of staff. Supported resolution of safety issues resulting in major reduction of recordable injury rate. Developed strategy for facility closure remediation and managed its budget. Coordinated environmental permitting for new CPC facility and prepared applicable procedures.

- Clayton Environmental Consultants, Inc. Edison, NJ (1992-1995)
Environmental Consultant

Consulting services, for multiple clients, encompassing environmental assessments, management plan preparation, permitting and auditing. Project management duties included proposal writing, budgeting and subcontractor reviews.

- CFM Environmental Services, Inc. Somerville, NJ (1989-1992)
Regulatory Specialist

Support group leader to design engineers for environmental issues.

Resume

Robert A. Gigliuto
Staff Design Engineer
Specialty Department, CPC, Newtown, PA

A. Education

Physics, BA, State Univ. of New York, Potsdam
Physics, MS, Clarkson Univ., Potsdam, NY

B. Experience

- Lockheed Martin Corp. Newtown, PA (1997 to present)
Staff Design Engineer

Coordinates radiation testing of electronic parts in gamma ray, cosmic ray and flash x-ray environments. Performs space radiation environment modeling and shielding analyses.

- Lockheed Martin Corp. King of Prussia, PA (1991-1997)
Staff Design Engineer-EOS-AM Spacecraft

Performed space radiation and radiation effects studies for spacecraft design. Directed contamination, electrostatic discharge, EMI/EMC, parts engineering and meteoroid engineering design/analysis activity. Conducted heavy-ion testing at Brookhaven Nat'l. Lab to simulate cosmic ray effects in space.

- Kaman Sciences Corp., Alexandria, VA (1989-1991)
Scientist

Supported survivability studies for strategic systems and advanced weapon lethality studies. Assessed survivability capability of spacecraft surface materials undergoing test on NASA's LDEF space mission.

- General Electric Co., King of Prussia, PA (1984-1989)
Survivability Physicist

Performed evaluations of spacecraft materials in nuclear, laser and particle space weapon environments. Performed spacecraft shielding analyses for proposal and on-contract design studies. Developed and implemented threat hardening concepts. Analyzed and reported on materials studies performed at underground nuclear device explosions at the Nevada Test Site.

C. Associations

- International Electronic and Electrical Engineers
- American Physical Society (former member)

Resume

Roman Herschitz, Ph.D.
Manager, Specialty Engineering Department
CPC, Newtown, PA

A. Education

Physics/Mathematics, BS, City Univ. of New York
Materials Science/Physics, MS, Cornell Univ., Ithaca, NY
Materials Science/Engineering, Ph.D., Cornell Univ., Ithaca, NY

B. Experience

- Lockheed Martin Corp. CPC, Newtown, PA (1996 to present)
Manager, Specialty Engineering Department

Manages department responsible for survivability engineering (radiation and laser), reliability engineering and advanced process development in support of RF and power subsystem components. Manages Radiation Effects Laboratory (Valley Forge facility) used for testing of ionizing dose and dose-rate response of electronics parts and circuits, and materials. Led successful team for \$ 2M RF technology study proposal to NASA.

- Lockheed Martin Corp. (and predecessors), Astro Space Div., East Windsor, NJ (1983-1996)
Senior Staff Engineer

Performed and guided radiation effects, EMI/EMC, materials and process engineering on multiple NASA spacecraft programs. Performed R & D on controls and thin film materials for reducing and eliminating ESD in spacecraft designs. Designed and implemented new ESD detector for spacecraft. Directed proposal and contract for laser weapon response methodology. Active in R & D of RF superconducting materials and devices.

- Rutgers Univ. and The College of New Jersey (1984-1989)
Adjunct Faculty Member

Taught courses in materials science and engineering technology.

- Cornell Univ., Ithaca, NY (1977-1983)
Research Assistant

Researched in area of radiation effects on materials and devices; activity involved handling of reactor-irradiated samples. Taught college-level courses in materials science and engineering.

Roman Herschitz, Ph.D., Resume concluded

C. Associations

American Institute of Aeronautics and Aerospace
International Electronic and Electrical Engineers
SAMPE

D. Awards, Patents & Publications

Dean's List, Magne Cum Laude Graduate
GE Engineering Excellence Team Award

3 Patents

40 technical paper publications- covering wide range of engineering studies

Resume

John S. Daukas
Chief Engineer, DSCS Communications Subsystem
CPC, Newtown, PA

A. Education

Electrical Engineering, BS, Drexel Univ., Philadelphia, PA

B. Experience

- Lockheed Martin Corp. CPC, Newtown, PA (1997 to present)
Chief Engineer, DSCS Communications Subsystem

Responsible for design, manufacture and test of RF subsystem upgrade.

- Lockheed Martin Corp. VF Operation, King of Prussia, PA (1986-1997)
Senior Staff Engineer

Responsible for RF Communications Payload integration and test. Led design, development and production of a GHz RF Receiver, MIC microwave amplifiers and 2 to 60 GHz RF components using HEMT technology. Supported test software design for on-orbit testing of RF subsystems.

- Bendix Field Eng'g. Corp., Columbia and St. Inigoes, MD (1985-1986)
Field Engineer

Performed installation and repair of LAMPS Data and Telemetry receiver.

- Naval Air Development Center, Warminster, PA (1982-1985)
Electrical Engineer

Designed and qualified test equipment for airborne missiles and performance measurement electronics. Researched RPV systems concepts. Evaluated radar counter system and test results.

C. Patent

US Patent No. 5,525,945: Dielectric Resonator Notch Filter

Resume

Mark W. Macgregor
Payload Power Specialist
CPC, Newtown, PA

A. Education

Burlington Comm. College, Wrightstown, NJ
Electronic Tech., Assoc. Degr., PENNCO Technical Institute, Bristol, PA
Electronics Diploma, Fort Gordon Signal School
Gen'l. Studies, Georgia Military College, Fort Gordon, GA

B. Experience

- Lockheed Martin Corp., CPC and Astro Space, Newtown, PA and East Windsor, NJ (1990 to present)
Payload Power Specialist

Responsible for corona, PIM and multipaction testing of RF components; multipaction tests involve handling and use of small Cs-137 radioactive sources. Wrote specs and designed RF test equipment. Supervises technicians in RF test operations. Designed a ring resonator to increase TWTA peak power. Evaluated TWTA performance.

- General Electric Co., Valley Forge and Philadelphia, PA (1985-1990)
RF Senior Electronic Technician

Performed tuning and testing of RF components for communications and arming/fusing subsystems. Trained and supervised technicians in computer-based testing.

- Booz-Allen & Hamilton, DAL Div., Huntington Valley, PA (1984-1985)
Specification Writer

Provided technical support to use of specs and drawings. Supported definition of procurement requirements.

- US Army, Fort Gordon, GA (1979-1983)
Strategic Microwave Systems technician (Enlisted)

Provided technical support of documentation for equipment maintenance.

C. Awards

Honorable Discharge, US Army

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03520
Status Code: 0
Fee Category: 3E
Exp. Date: 20030531
Fee Comments: _____
Decom Fin Assur Req'd: Y
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: LOCKHEED MARTIN CORPORATION
Received Date: 980316
Docket No.: 3012894
Control No.: 125533
License No.: 37-02006-09
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: _____

3. COMMENTS

Signed M.A. Perkins
Date 3/16/98

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered)

1. Fee Category and Amount: 3E \$390

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____

1998 MAR 19 AM 9:38

Log	<u>MAR 16</u>
Premiser	
Check No.	<u>R183301</u>
Amount	<u>390</u>
Fee Category	<u>3E</u>
Type of Fee	<u>AMB</u>
Date Check Rec'd	<u>5/19/98</u>
Date Completed	
By:	<u>BB</u>

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ATTN: JOHN L. ANDREWS
RADIATION SAFETY OFFICER
LOCKHEED MARTIN CORPORATION
MISSILES & SPACE - VALLEY FORGE OPERATON
PO BOX 8555
PHILADELPHIA, PA 19101

*ALTHOUGH, YOU REFERENCED A CHECK FOR \$390 BEING MAILED TO NRC, TO DATE, WE HAVE NOT RECEIVED THE CHECK.

TYPE OF ACTION

- NEW LICENSE
- RENEWAL OF LICENSE
- AMENDMENT TO LICENSE

REQUESTED DATE

3-13-98

LICENSE NUMBER

37-02006-09

CONTROL NUMBER

125533

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3E	\$	\$	\$ 390.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	390.00
PAYMENT RECEIVED	\$	0.00
AMOUNT DUE	\$	390.00

Your request was received without the prescribed application fee.

We received your Check No. _____ in the amount of \$ _____. Payment of the additional fee noted above is required.

Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

II. FEE NOT REQUIRED

- Enclosed is Check No. _____ which accompanied your request. The fee is not required because:
 - We received your Check No. _____ in payment of the fee.
 - The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____.
 - Your request was combined, prior to review, with your request, Control No. _____.

III. CHECK RETURNED

- Enclosed is Check No. _____ which was returned to us by the bank for:
 - INSUFFICIENT FUNDS
 - ACCOUNT CLOSED
 - OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

- License No. _____, Amendment No. _____, issued on _____ was issued without the required fee being collected. The fee required is noted in Section I of this form.
- The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section 1 of this form. Refer to Section 170.31 and Footnote 1(d)(2).
- Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section 1 of this form.

SIGNATURE -- LICENSING STAFF
Signed by Brenda E. Brown

(LEAVE BLANK)

DATE

3-19-98

BRENDA BROWN 301-415-6055